

QUARTERLY REPORT - PUBLIC PAGE

GTI PROJECT NUMBER 20753

In-field Corrosion Rate Measurement

DOT Prj# 256**Contract Number: DTPH56-08-000022****Reporting Period:**2nd Project Quarter**Report Issued (Period Ending):**

February 27, 2009

Prepared For:

Mr. Max Kieba
General Engineer
US DOT PHMSA
1200 New Jersey Ave. SE
Washington DC 20590
202-493-0595
max.kieba@DOT.gov

Prepared By:

Gas Technology Institute
Ms. Susan Borenstein
R&D Manager
susan.borenstein@gastechnology.org
847-768-0555

Gas Technology Institute

1700 S. Mount Prospect Rd.
Des Plaines, Illinois 60018
www.gastechnology.org

Legal Notice

This information was prepared by Gas Technology Institute (“GTI”) for DOT/PHMSA (Contract Number: DTPH56-08-000022).

Neither GTI, the members of GTI, the Sponsor(s), nor any person acting on behalf of any of them:

- a. Makes any warranty or representation, express or implied with respect to the accuracy, completeness, or usefulness of the information contained in this report, or that the use of any information, apparatus, method, or process disclosed in this report may not infringe privately-owned rights. Inasmuch as this project is experimental in nature, the technical information, results, or conclusions cannot be predicted. Conclusions and analysis of results by GTI represent GTI's opinion based on inferences from measurements and empirical relationships, which inferences and assumptions are not infallible, and with respect to which competent specialists may differ.*
- b. Assumes any liability with respect to the use of, or for any and all damages resulting from the use of, any information, apparatus, method, or process disclosed in this report; any other use of, or reliance on, this report by any third party is at the third party's sole risk.*
- c. The results within this report relate only to the items tested.*

Results and Conclusions

GTI has bench tested equipment in preparation for conducting field tests at our facilities with four measurement techniques: LPR, ER, weight loss coupons and soil probes.

In addition to the testing at GTI, we have prepared for testing in coordination with ECDA activities of local utility companies.

GTI has obtained corrosion test results from one utility in Arizona who is using one of the field testing techniques we are planning to use.

Additional equipment for the field utility testing has been ordered.

Plans for Future Activity

Task 1- GTI will continue collecting test site location and pre-assessment information.

Task 2 and 3 - GTI will continue setting up and testing ER and LPR probes for GTI field testing. The GTI field test site will be constructed, the probes and weight loss coupons will be installed and monitoring will begin during the 3rd quarter. GTI will coordinate with the utilities field testing and install ER probes and weight loss coupons when excavations begins to occur in the 3rd quarter.

Task 5 – GTI will collect and test soil samples from the utilities field testing when excavations occur in the 3rd quarter. The testing will involve placing ER probes next to the pipe (but not in contact with the pipe) and taking soil readings with both types of LPR probes while the excavation is open. A small read-out box will be left at the surface to allow periodic readings of the ER probes to be collected. We will also be collecting soil samples for further analysis and correlation. We will periodically return to the site to take readings over an 18 month period.

Respectfully Submitted,



Susan W. Borenstein

847-768-0555

End of Report